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المؤهل العلمي

- Ph.D in Engineering
- Masters in Computer Science
- Bachelor in Engineering Technology

مسؤوليات التدريس

ADVANCED COMPUTER COMMUNICATION NETWORKS	2016/2017 2018/2019
ADVANCED OPERATING SYSTEMS	2006/2007 2009/2010 2010/2011
COMPUTER ARCHITECTURE & DESIGN	2000/2001 2001/2002 2003/2004 2004/2005 2005/2006 2007/2008
COMPUTER ARCHITECTURE AND DESIGN	2007/2008
COMPUTER COMMUNICATION & NETWORKS	2009/2010
COMPUTER COMMUNICATIONS AND NETWORKS	2009/2010 2016/2017
COMPUTING SYSTEMS DESIGN	2000/2001 2001/2002 2003/2004 2004/2005 2007/2008 2008/2009 2009/2010 2010/2011 2011/2012 2012/2013
DIGITAL LOGIC DESIGN	2000/2001 2001/2002 2002/2003 2003/2004 2004/2005 2005/2006 2006/2007 2007/2008 2008/2009 2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020 2020/2021
DIGITAL LOGIC DESIGN (LAB)	2002/2003 2003/2004
ELECTRICAL AND COMPUTER ENGINEERING LAB II	2006/2007 2007/2008 2008/2009 2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020 2020/2021
FINAL YEAR PROJECT I	2019/2020
HARDWARE SYSTEMS DESIGN	1999/2000
OPERATING SYSTEMS	2006/2007 2009/2010

PROJECT I	2008/2009 2009/2010 2010/2011 2011/2012 2012/2013
PROJECT II	2008/2009 2009/2010 2010/2011 2011/2012 2013/2014 2014/2015
RESEARCH METHODOLOGY & SEMINAR IN ECE	2015/2016 2016/2017 2017/2018 2018/2019
RESEARCH METHODOLOGY & SEMINAR IN ECE (RESEARCH MODE)	2015/2016 2016/2017 2017/2018 2018/2019
RESEARCH METHODOLOGY & SEMINAR IN ECE ENG (MIXED MODE)	2019/2020 2020/2021
RESEARCH METHODOLOGY AND SEMINAR	2017/2018 2018/2019 2019/2020 2020/2021
RESEARCH METHODOLOGY IN ELCTRCL & COMP ENGIN	2009/2010
RESEARCH METHODOLOGY IN ELECTRICAL & COMP ENGINEERING	2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017
SEMINAR	2001/2002 2016/2017

المشاريع البحثية

In Progress

- 2019 - Present** Investigation on the Effectiveness of a Packet Scheduling Algorithm for Health Care in Cognitive Fifth Generation (5G) Mobile Networks
- 2019 - Present** An Enhanced Automatic Eye Blinks Removal for Single-channel Electroencephalograph Using Adaptive Filter without Reference Electrode
- 2018 - Present** GIAD - IAT Project
- 2018 - Present** Classification of Stress Level Using Deep Learning Algorithm Based on Electroencephalograph (EEG) Signals
- 2018 - Present** Development of Continuous-time Non-invasive Glucose Sensing System
- 2017 - Present** Modeling Novel Maximum power point Tracking Algorithm for Small Scale Wind Turbine System
- 2017 - Present** Fundamental study of blood glucose solution models using a novel stepped impedance RF sensor for improved continuous monitoring of diabetic patients
- 2016 - Present** Training Teachers from Sudanese International Schools
- 2016 - Present** Dynamic Scheduling Algorithm for Cloud Computing

2015 - Present Analysis and Evaluation of Quality of Service Support Requirements in Mobile Network Environment

Completed

- 2017 - 2020** Modeling Novel Maximum power point Tracking Algorithm for Small Scale Wind Turbine System
- 2017 - 2020** Modeling Novel Maximum power point Tracking Algorithm for Small Scale Wind Turbine System
- 2016 - 2018** Multihoming-Based Scheme to Support Mobility Management in NEMO
- 2016 - 2018** Dynamic Scheduling Algorithm for Cloud Computing
- 2016 - 2018** Strategic Profiling and Analytic Modelling of Node Misbehaviour in Adhoc Networks Via Game Theory
- 2015 - 2018** Database-Aided Energy Detection Spectrum Sensing To Enhance Cognitive Radio Spectrum Utilization Of RADAR Frequency Bands
- 2015 - -1** The Impact Of Security Violations and Possible Solutions for Wireless Mobile Applications
- 2015 - 2018** Analysis and Evaluation of Quality of Service Support Requirements in Mobile Network Environment
- 2014 - 2017** Novel Method for Optimizing Real-Time Multimedia Performance in the Presence of Mobile Cellular Channel Impairments
- 2014 - 2018** Analysis of Human Hand Motion and Force during Eating and Model Formulation based on Neural Network for Robotic ADL Rehabilitation
- 2014 - 2016** Torques Affecting Particle Alignment and their Impacts on Cross Polarization at Microwave Bands
- 2013 - 2017** New Algorithm for Realtime OLAP Scheme over Multicore Distributed Processing to Serve Warehouse Data Mining
- 2013 - 2015** Optimised Multicast Support for Mobile Sender in Wireless Mesh Networks
- 2012 - 2015** Multicast Network Security using Quantum Key Distribution (QKD)
- 2012 - 2015** Analytical evaluation of inter domain movement in NEMO environment
- 2012 - 2012** Advances in Wireless Network (Title of Proposed Book)
- 2012 - 2015** Handheld to Facilitate Development of an Effective Multi-Targets Monitoring and Tracking (MTTM) Model
- 2011 - 2013** RU 2011: Testbed For Transmit Power Control in Zigbee-based WSN Healthnets
- 2011 - 2011** An Investigation of Image Guided Surgery (IGS) Computational Effectiveness Based on Clinical Evaluation
- 2011 - 2012** RU 2011: Design and Evaluation of Network Mobility Protocol to Achieve Seamless Handoff

- 2011 - 2016** Distortion- Free Digital Watermaking For Medical Images (Fundus) Using Complex-Valued Neural Network
- 2011 - 2013** An Investigation of Handoff Latency Reduction Mechanism for Mobile Internet Protocol Version 6 (MIPv6)
- 2011 - 2012** Enhancement of Context Transfer in Mobile Multicast
- 2010 - 2011** TDMA Protocol for Wireless Vehicular Communication
- 2010 - 2011** An Enhanced Network Mobility Protocol to Achieve Seamless Handoff
- 2010 - 2011** Design requirement and analysis of clustering routing protocols for the development of multipurpose sensor networking
- 2010 - 2011** Interference Analysis in OFDMA-Femtocell Systems
- 2010 - 2012** Position-based quality of service (QoS) multicast Routing Protocol for Mobile Ad-Hoc Networks
- 2010 - 2012** Context transfer based handoff in MPLS Domain
- 2009 - 2010** A Digital Watermarking System for Protecting Intellectual Properties Via Safe Area
- 2009 - 2011** Network Architecture and Hybrid Routing Protocol Design for Next-Generation Wireless Mesh Networks.
- 2009 - 2011** Development of an Efficient Portable Algorithm for the Grid Environment
- 2009 - 2011** An Enhancement of Fault-Tolerant Routing for Wireless Sensor Network
- 2009 - 2009** Quality of Service Challenges in Mobile Environment
- 2008 - 2011** Development of a Robust and Scalable Routing Protocol for Wireless Mesh Networks.
- 2008 - 2011** Developing an Efficient Approach for Handwritten Arabic Word Recognition
- 2008 - 2011** Provision of Research Services in W1MAX Mesh Protocol Design for MIMOS Wireless Networks and Protocol Lab
- 2007 - 2011** Integrated Agent-based Emergency and Medical Information System (IAEM) Based on Real-time and Mobile Environment
- 2006 - 2009** A Novel Adaptive Protocol for IP-Based Personalised Mobility Support: Developing Mathematical Models & Prototype for Analysis, Verification & Evaluation

المنشورات

Article

- 2020** [A novel artificial intelligence based timing synchronization scheme for smart grid applications.](#) Wireless Personal Communications , Early Access pp.1-19

- 2020** [Evaluating signalling and packet delivery cost for NDN producer's mobility in smart & sustainable environment.](#) Journal of Advanced Research in Dynamical and Control Systems , 12 (6) pp.1604-1614
- 2020** [Simulation of handoff algorithm for NDN producer's mobility.](#) Journal of Advanced Research in Dynamical and Control Systems , 12 (2) pp.2242-2251
- 2020** [Performance analysis of constrained device virtualization algorithm.](#) International Journal of Innovative Technology and Exploring Engineering (IJITEE) , 9 (5) pp.532-539
- 2020** [Evaluating average throughput for quantity of data stream in an NDN rendezvous server.](#) International Journal of Advanced Science and Technology , 29 (6) pp.125-134
- 2020** [Design and evaluation of a multihoming-based mobility management scheme to support inter technology handoff in PNEMO.](#) Wireless Personal Communications , Online First pp.1-21
- 2020** [Numerical analysis of manemo routing scheme in multihoming environment.](#) Journal of Critical Reviews , 7 (8) pp.1679-1683
- 2020** [An adaptive diffserv approach to support QOS in network mobility nemo environment.](#) International Journal of Computer Networks & Communications (IJCNC) , 12 (2) pp.23-48
- 2019** [Theoretical review of routing protocols used for wireless community networks.](#) Journal of Computational and Theoretical Nanoscience , 16 (9) pp.3656-3662
- 2019** [Phase offset analysis of asymmetric communications infrastructure in smart grid.](#) Elektronika ir Elektrotechnika , 25 (2) pp.67-71
- 2019** [MM-PNEMO: a mathematical model to assess handoff delay and packet loss.](#) Bulletin of Electrical Engineering and Informatics , 8 (2) pp.611-621
- 2019** [Throughput analysis for the mobility of a consumer and an anchorless producer in NDN.](#) Journal of Advanced Research in Dynamical and Control Systems , 11 (1) pp.189-196
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- 2019** [Performance evaluation of best route and broadcast strategy for NDN producer's mobility.](#) International Journal of Engineering and Advanced Technology (IJEAT) , 9 (1) pp.3671-3677
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- 2019** [Neuroscience-inspired artificial vision feature parallelism and deep learning models, a comparative study ii depth.](#) Journal of Asian Scientific Research , 9 (9) pp.127-139
- 2019** [Investigation of internet of things handover process for information centric networking and proxy mobile internet protocol.](#) Mehran University Research Journal of Engineering & Technology , 38 (4) pp.867-874
- 2018** [Evaluation of the W-metric routing Using RPL protocol in LLNS.](#) IIUM Engineering Journal , 19 (2) pp.80-89
- 2018** [High gain UWB horn antenna for concealed metal detection and microwave imaging application.](#) Sindh University Research Journal (Science Series) , 50 (3D) pp.161-164
- 2018** [An indoor path loss model for wireless sensor networks.](#) International Journal of Ultra Wideband Communications and Systems , 3 (4) pp.192-200
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- 2017** [Packet loss and packet delivery evaluation using network simulator for multicast enabled network nobility management.](#) International Journal of Future Generation Communication and Networking , 10 (4) pp.41-50
- 2017** [Development of gateway discovery and selection scheme for MANEMO \(MGDSS\).](#) International Journal of Future Generation Communication and Networking , 10 (3) pp.81-90

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- 2017** [Performance aAnalysis of HRO-B+ scheme for the nested mobile networks using OPNet.](#) Indonesian Journal of Electrical Engineering and Computer Science , 8 (2) pp.522-532
- 2017** [Performance of turbo code in CDMA under AWGN channel.](#) International Journal of Future Generation Communication and Networking , 10 (5) pp.18-28
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- 2017** [Handover analysis for multicast enabled network mobility management using network simulator.](#) International Journal of Multimedia and Ubiquitous Engineering , 12 (3) pp.81-90

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- 2017** [The rise of internet of things and big data on the cloud: challenges and future trends.](#) International Journal of Future Generation Communication and Networking , Vol.10 (3) pp.49-56
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- 2016** [Video streaming based on temporal frame transcoding.](#) Advanced Science Letters , 22 (10) pp.2852-2855
- 2016** [Adapted packet scheduling algorithm for robust real-time multimedia.](#) Research Journal of Applied Sciences, Engineering and Technology , 13 (3) pp.215-222
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- 2014** [Review an assessment of electromagnetic wave propagation in sand and dust storms at microwave and millimeter wave band- part 1.](#) Progress In Electromagnetics Research M , 40 (10) pp.91-100
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- 2013** [Evaluation of QoS supported in network mobility NEMO environments.](#) IOP Conference Series: Materials Science and Engineering , 53 pp.012032-1-11
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- 2013** [An enhanced macro mobility management scheme in NEMO environment to achieve seamless handoff.](#) World Applied Sciences Journal (21) pp.35-39
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- 2012** [Framework for enhancement of image guided surgery: finding area of tumor volume .](#) Australian Journal of Basic and Applied Sciences , 6 (1) pp.9-16
- 2012** [Performance evaluation in MANETs environment.](#) Australian Journal of Basic and Applied Sciences , 6 (1) pp.143-148
- 2012** [Enhancing performance of MAODV routing protocol for wireless mesh network using integrated multiple metrics technique \(IMMT\).](#) International Journal of Networks and Communications , 2 (2) pp.1-6
- 2012** [Analytical evaluation of a new route optimization scheme for nested mobile network.](#) World Applied Sciences Journal pp.16-20
- 2012** [An enhanced macro mobility management scheme in NEMO environment to achieve seamless handoff.](#) World Applied Sciences Journal , 20 pp.35-39
- 2012** [Enhanced clustering routing protocol for power-efficient gathering in wireless sensor network.](#) International Journal of Communication Networks and Information Security , 4 (1) pp.18-28
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